



Polyclonal Anti- Apoptotic peptidase activating factor 1, **APAF1 (Sepharose Bead Conjugate)**

Catalogue No. PA1249-S

Lot No. 09G01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, rat, mouse.

No cross reactivity
with other proteins.

Recommended application

(Immunoprecipitation(IP))

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human APAF1, identical to the related rat and mouse sequence.

Purification

Immunogen affinity purified.

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Storage

Store at 4°C for frequent use.

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to

BACKGROUND

Apoptotic peptidase activating factor 1, also known as APAF1, is a protein which in humans is encoded by the *APAF1* gene. This gene is mapped to chromosome 12q23.1 It encodes a cytoplasmic protein that initiates apoptosis. And it is an essential downstream effector of p53-mediated apoptosis.² This protein contains several copies of the WD40 repeat domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). In the presence of cytochrome c and dATP, APAF1 assembles into an oligomeric apoptosome, which is responsible for activation of procaspase-9 and maintenance of the enzymatic activity of processed caspase-9.³ Furthermore, APAF1 is inactivated in metastatic melanomas, leading to defects in the execution of apoptotic cell death.⁴ Additionally, APAF1 has been shown to interact with NLRP1,⁵ Caspase-9,⁵ 6, 7, 8, 9, 10 APIP,⁶ BCL2-like 18,⁹ and HSPA4.¹⁰

REFERENCE

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